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Electric current partition during vacuum arc remelting of ...

During the processing of maraging steels, Titanium easily combines with Nitrogen to form nitride inclusions, known to be deleterious for fatigue properties of the alloy. According to thermodynamic calculations, the precipitation occurs during solidification of the vacuum arc remelted (VAR) ingot. A coupled model of titanium nitride (TiN) inclusion precipitation and vacuum remelting has been ...

Electro-slag remelting | Wikipedia audio article

Vacuum arc remelting Last updated May 28, 2019. Vacuum arc remelting (VAR) is a secondary melting process for production of metal ingots with elevated chemical and mechanical

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homogeneity for highly demanding applications. [1] The VAR process has revolutionized the specialty traditional metallurgical techniques industry, and has made possible incredibly controlled materials used in the ...

Electro-slag remelting - Wikipedia
VACUUM ARC REMELTING Vacuum Arc Remelting (VAR) is another secondary refining process that enhances the quality of metal that had undergone primary air melting and/or was melted, or remelted, in arc, VIM or ESR furnaces. The VAR feedstock is consumable electrodes produced by VIM or conventional air melting. VAR, like ESR, depends on controlled

Vacuum Arc Remelting (VAR):
Titanium, Steel, Superalloy ...
Vacuum Degassing Processes for

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Liquid Steel. During the primary steelmaking process, gases like oxygen (O₂), hydrogen (H₂) and nitrogen (N₂) dissolve in the liquid steel. These gases have a harmful effect on the mechanical and physical properties of steel. ... Vacuum arc degassing (VAD) process.

Vacuum arc remelting - Wikipedia
Steel - Steel - Special solidification processes: For the manufacture of special products, refining and solidification processes are often combined. Vacuum ingot pouring is often employed to produce very large ingots that are subsequently processed, in expensive forging and machining operations, into such products as rotors for power generators.

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Modern Control Strategies for Vacuum
Arc Remelting of ...

Melting, Remelting, and Casting for
Clean Steel John Campbell The
control of the metallurgy of steels is
now highly developed. This is in
contrast to the casting techniques for
steels. Although continuous casting is
generally conducted well,

Scilit | Article - Titanium Nitride (TiN)
Germination and ...

Evaporation behavior of manganese
from steel melt in the vacuum arc
remelting was studied. The results
obtained are as follows; (1)
Evaporation behavior was well
expressed by the equation,
 $\log[Mn]_t/[Mn]_0 = -1/2.3K Mn (22/vD^2 + 62)$ where k_{Mn} , v and D are
evaporation coefficient, melt rate and
ingot diameter respectively. (2) At the

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starting period of remelting,
manganese yield was lower than ...

Steel - Special solidification processes
| Britannica

In steel: Vacuum arc remelting (VAR).
In this process, employed for casting
steels that contain easily oxidized
alloying elements, a consumable
electrode made of forged steel or of
compacted powder or sponge is
continuously melted by an arc under
vacuum.

Melting, Remelting, and Casting for
Clean Steel

Vacuum Arc Remelting Furnaces

Background - Pioneers in VAR

Technology Consarc is well known to
producers of speciality steel,
superalloys, and reactive metals. We
pioneered commercial ingot production

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using automated Vacuum Arc Remelting (VAR) furnaces. We were the first to apply load cell weighing of electrodes to improve process control. We

Vacuum Arc Remelting Furnaces -
Consarc

Highlights We investigate experimentally the current partition in a vacuum arc remelting furnace during the melt of a steel electrode. The ingot crown carries more than 50% of the furnace current. The side-arcing current leaving the crucible above the crown remains small (about 10% of the furnace current). No clear relation between the current partition and the variation of the gap length ...

Vacuum Arc Remelting (VAR) -
Metalwerks

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Demonstration of a vacuum suction cast made with an arc melting furnace. An electric arc is used to melt titanium, which is then cast into a mold. Visit <http...>

Vacuum Arc Remelting Of Steel
Vacuum arc remelting (VAR) is a secondary melting process for production of metal ingots with elevated chemical and mechanical homogeneity for highly demanding applications. The VAR process has revolutionized the specialty traditional metallurgical techniques industry, and has made possible incredibly controlled materials used in the biomedical, aviation, and aerospace fields.

Vacuum arc remelting | metallurgy |

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By vacuum arc remelting, billets from ingot cast material or continuously cast blooms are melted under a vacuum atmosphere. VAR steels and special-alloys, as well as titanium and zirconium and their alloys, are used in a large number of high integrity applications, where cleanliness, homogeneity and improved fatigue properties in the final product are essential.

Vacuum arc remelted (VAR) billets — Sandvik Materials ...

Electroslag remelting (ESR), also known as electro-flux remelting, is a process of remelting and refining steel and other alloys for mission-critical applications in aircraft, thermal power stations, nuclear power plants, military technology, etc.. The electroslag

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remelting (ESR) process is used to remelt and refine steels and various super-alloys, resulting in high-quality ingots.

Vacuum Degassing Processes for Liquid Steel – IspatGuru
Remelting Variations Under Vacuum
Apart from the remelting of a consumable electrode in a water-cooled copper crucible, there is a recent development of the vacuum arc remelting process, namely vacuum arc double electrode remelting (VADER). Fig- ure 5 shows the basic design of the VADER process with a static crucible. The arc is

Electric current partition during vacuum arc remelting of ...
ESR reduces other types of inclusions as well, and is seen as an alternative

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to the vacuum arc remelting method that is prevalent in US industries. An example of the use of the electro-slag ...

Arc Melting Furnace ABJ 338 vacuum casting video

Vacuum Arc Remelting (VAR) Spang Power Electronics is a manufacturer of custom power equipment installed throughout the VAR industry for the refining of steels, superalloys, titanium, and zirconium. Vacuum arc remelting is the continuous remelting of a consumable electrode by means of an electric dc arc between the electrode and the base of a copper mold.

An Introduction to Premium Melting - Carpenter - Home

Metalwerks Vacuum Arc Remelt (VAR) furnaces have an extensive range of

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capabilities. The crucible sizes range from 2.5" diameter and up to 20" diameter. The furnace is setup to melt Fe, Ni, Co, Ti, and Zr alloys.

Vacuum arc remelting - WikiMili, The Free Encyclopedia
Modern Control Strategies for Vacuum Arc Remelting of Segregation Sensitive Alloys Rodney L. Williamson and M. Eric Schlienger Materials Processing Department Sandia National Laboratories Albuquerque, New Mexico 87 18.5 1134 Christopher L. Hysinger and Joseph J. Beaman Department of Mechanical Engineering

Remelting Variations Under Vacuum I
I I + supply
Highlights We investigate experimentally the current partition in a

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vacuum arc remelting furnace during the melt of a steel electrode. The ingot crown carries more than 50% of the furnace current. The side-arcing current leaving the crucible above the crown remains small (about 10% of the furnace current). No clear relation between the current partition and the variation of the gap length ...

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